

ALB130 Lite Series

Lite 80W Ku-Band Block-Up Converter

This small and lightweight BUC is ideal for mobile and satellite uplink applications.

The BUC has "Best in Class" efficiency and "lowest power consumption." The unit works on a wide range DC power supply. Innovative and efficient thermal design makes this BUC one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

Extensive M/C interface with RS232/RS485/Ethernet (SNMP & HTTP).

Quality Assurance

100% of all BUCs go through stringent quality checks in addition to well defined Electrical Stress Screening to ensure operation in harsh outdoor environments. The BUCs are also subjected to seal test for water ingress verification.

Reliability

Field proven under harsh environment conditions, Agilis ODUs can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

Features

- Compact and lightweight
- Available in standard and extended Ku-Band
- · Forward power detection
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP)
- Automatic fault identification & alarm generation
- Temperature compensation facility
- Built-in receive reject filter
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof



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Technical Specifications

RF Specifications

Transmit Frequency 14.00GHz - 14.5GHz 13.75GHz - 14.5GHz 950MHz - 1450MHz IF Frequency Range 950MHz - 1700MHz

13.05GHz LO Frequency 12.80GHz

Output Power P1dB

49dBm

30dBc @ P1dB Spectral Re-growth

Third Order Intermod (two tone) -25dBc @ relative to combine power of two

carrier at 3dB total power backoff from P1dB

Small Signal Gain

65dB Min Gain Flatness Full Band ±2dB ±1dB Gain Slope over 40MHz

Gain Variation over temperature ±2dB @ from -40°C to +60°C 20dB in step of 0.5dB Gain Control According to EN301428

O/P spurious

Phase Noise @ Offset

1KHz -73dBc/Hz 10KHz -83dBc/Hz 100KHz -93dBc/Hz I/P VSWR 1.3:1 O/P VSWR 1.25:1 Noise Power Density Tx BD 70dBW/4KHz

R_x BD 142dBW/4KHz

DC Power

Prime Power 28VDC (range 24V to 32VDC)

48VDC (range 38V to 60VDC) (optional)

Power Consumption

80W / 100W 550VA Typical

Interfaces

IF Input Interface 50Ohms N-type Female

Output Interface WR 75G

External Reference

Frequency 10MHz Power -5dBm to +5dBm

External reference phase noise Requirement @ frequency offset

1KHz -150dBc/Hz 10KHz -155dBc/Hz 100KHz -160dBc/Hz

Monitor And Control

Monitor **BUC** temperature

Status alarm Output power Input power LED status indication

Control Attenuation

RF output mute

Interface RS232/RS485 & Ethernet (SNMP & HTTP)

Tx Redundancy with external RCU

Environmental

Operating Temperature -40°C to +60°C

Humidity Up to 100%

Weather protection sealed to IP65

Mechanical

80W

320L x 197W x 97H mm

Weight

80W

Color White Powder Coat

Compliance Standard

IEC 609501-2nd Edition International Safety Standard for Information

Technology Equipment

ETSI EN 301 489-12 Electromagnetic Compatibility and Radio Spectrum

Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the

Fixed Satellite Service (FSS)

ETSI EN 301 489-1 Electromagnetic Compatibility and Radio

Spectrum Matters (ERM); ElectroMagnetic

Compatibility Standard for Radio

Equipment and Services

FCC Class A Two levels of radiation and

conducted emissions Limits for unintentional radiators (FCC Mark)

Note: All specifications are subject to change without notice. Rev. 240214

www.agilissatcom.com

For more information, please send enquiry to:

